RHIC Operations Procedures Manual

4.801 PASS Subsystem Test: 8 O'Clock Gates Semi-Annual Acceptance Tests for PEER 17

(Interim version; exclusive of PHENIX gates)

Text Pages 1 through 5 Attachments 1, 2, 3, 4

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials
1	4/21/99	Att 4, pg. 1 - Remove Sim. Rel. Test	SM
2	4/21/99	Att #4, pg. 9 - Change "restricted" to "controlled"	SM
3	4/26/99	Att #4, pg. 14 - Change PEER 13 to PEER 17	SM
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RHIC-OPM 4.801

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Category A

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4.801 PASS Subsystem Test: 8 O'Clock Gates Semi-Annual Acceptance Tests for PEER 17

1. Purpose and Scope

- 1.1 The purpose of this procedure is to test the area of the Collider covered by the PEER 17 (Sector 7/*/Sector 8) portion of the RHIC Particle Accelerator Safety System (PASS) for proper operation of the entry and internal gates that form the perimeter of the Collider. (* Note that the PHENIX area is not yet complete; this OPM version does not test the gates at the 8 o'clock experimental area)
- 1.2 Components of the system to be tested include indicator lights, key switches, card readers and physical installation of:
 - 1.2.1 Nine gates and doors, as follows:
 - A. <u>7GS1</u>; in Sector 7, the boundary between PEERS 17 and 7;
 - B. <u>7EL1</u>; vertical escape ladder in Alcove 7C;
 - C. **7GE1**; external entry gate into 7Z1 Area
 - D. **7MD1 & 8MD1**; monitored doors for magnet transport;
 - E. **8GE2**; external entry gate into 8Z2 Area
 - F. **8EL1**; vertical escape ladder in Alcove 9A;
 - G. <u>8ED2</u>; horizontal escape door in Alcove 9B;
 - H. **9GS1**; in Sector 9, the boundary between PEERS 15 and 17;

2. Responsibilities

- 2.1 Members of the RHIC Safety Systems Section shall, as designated:
 - 2.1.1 conduct this test procedure;
 - 2.1.2 document tests performed, problems found, and repairs made in the PASS Maintenance Log Book;
 - 2.1.3 complete the Test Checklist items within the test procedure;
 - 2.1.4 inform the RHIC Safety Systems Section Head of any failures found.

- 2.2 The RHIC Safety Systems Section Head shall:
 - 2.2.1 ensure that this procedure is executed at intervals of not greater than six months, or at such times as required by the Radiation Safety Committee (RSC);
 - 2.2.2 review the test results and sign the completed test procedure;
 - 2.2.3 report any as-found unsafe failures to the Assistant to the RHIC Project Director for ES&H and the Chairman of the RSC.
- 2.3 <u>The RSC Chairman (or designee) shall:</u>
 - 2.3.1 review the test results and sign the completed test procedure;
 - 2.3.2 determine if and when retesting is required after changes in hardware or software have been implemented.

3. <u>Prerequisites</u>

3.1 <u>Before proceeding with these tests, RS LOTO of the RHIC Injection Critical</u> Devices using RHIC/AGS OPM 9.1.16 is required!!

CAUTION

The possibility of beam being admitted into the area under test must be removed by properly securing the appropriate Critical Devices, or else a grave radiation hazard may result!

- 3.1.1 The Test Team Leader or the RHIC SSSH (or qualified designee) shall place an RS LOTO on the following devices located in Bldg 1000P to ensure that the collider is in a "safe off" condition:
 - A. The W-Line 20° bend magnet power supply (PSWARC20), and
 - B. The W-Line switching magnet power supply (PSSWM)
 - C. Other critical devices as specified by the RSC chair (or qualified designee)

3.2 Minimum Personnel

- 3.2.1 A minimum of two members of the RHIC Safety System Section, who will work in the field are required. Their qualifications and training requirements are:
 - A. RWT-002, "RAD Worker 1"
 - B. RHIC Access Safety Training.
 - C. These members shall be designated "Inspector" and "Assistant".
- 3.2.2 One member of the RHIC Safety System Section to man the PASS System Operator Interface in the MCR is required. This member shall be qualified to:
 - A. Operate the Operator Interface in the MCR.
 - B. Set the PASS System in the required operating Mode, and to direct the test effort. He shall record test results and make entries in the PASS Maintenance Log as required.
 - C. This member shall be designated "Test Team Leader".

3.3 Equipment required for the Inspector and Assistant(s)

- 3.3.1 TLD badges
- 3.3.2 RHIC Restricted Access (S) keys as required for testing
- 3.3.3 RHIC Controlled Access (#14) keys as required for testing.
- 3.3.4 RHIC Sweep/Reset (#15) keys as required for sweeping/resetting.
- 3.3.5 Blank PASS keys as required for testing
- 3.3.6 RHIC "Blue" entry passcard.
- 3.3.7 RHIC "Super Blue" entry passcard.
- 3.3.8 RHIC "Red" (PHENIX) entry passcard.
- 3.3.9 RHIC "Red" (STAR) entry passcard.
- 3.3.10 RHIC "Red" (PHOBOS) entry passcard.
- 3.3.11 RHIC "Red" (BRAHMS) entry passcard.
- 3.3.12 RHIC Safety System padlock keys for access to PASS gateboxes.
- 3.3.13 Large screwdriver to open PASS gateboxes.
- 3.3.14 Flashlight for inspection of gatebox interiors.

3.4 Posting

3.4.1 Prior to performing this series of tests, post all entrance gates with signs that the area is under test.

4. <u>Precautions</u>

None

5. Procedure

- 5.1 Conduct Acceptance Tests as delineated in Attachment #4.
- NOTE 1 If at any time either Division A or B equipment does not show the expected results, the test shall be halted and the necessary repairs made. The failure shall be noted on the Test Checklist. Details of the problem and repairs made shall be recorded in the PASS Maintenance Log Book and the PASS Trouble Log Tracking Sheet (Attachment #3) and reported to the RHIC Safety Systems Section Head. Repairs to wiring or software that could render previous test results invalid shall cause the test procedure to be restarted from the beginning; however mechanical re-alignment of switches, gates etc. shall not necessitate complete retesting following repair.
- NOTE 2 The Test Team Leader shall check off the items on the Test Procedure form as each step is successfully completed (even if someone else has actually done the step.)
 - 5.1.1 Use only a pen with permanent, non-erasable black ink to fill in the test procedure responses; pencil or other erasable medium is not allowed.
 - 5.1.2 Each line in the procedure has a checkoff box associated with it at the end of the line; each box must be checked.
 - 5.1.3 Anomalies found during testing should be noted in the margins of the test procedure. Do not use the reverse side of the pages as the test results will be photocopied to expedite the review process and notes on the reverse sides of pages may be lost. Compile all unexpected test results on the PASS Trouble Log Tracking Sheet (Attachment #3) for ease of review. If repairs are required, they must also be entered into the PASS Maintenance Log Book (see Note #1 above)
 - 5.1.4 Each major section of the test procedure has a signature line associated with it; each section must be signed off and dated as completed by the Test Team Leader.

- 5.1.5 At the completion of the test program, the Test Team Leader shall fill out the PASS Completion Checkoff List (Attachment #1). This list serves as a summary sheet for the test procedure, and has a row corresponding to each Section in the Test Procedure.
- 5.1.6 Following successful completion of testing, the test results shall be reviewed by the RHIC SSSH and the RSC Chair, and/or their designees. Verification of their review and acceptance of the test results shall be signified by signatures of the test team members, the SSSH and RSC Chair on the Procedure Summary Signoff Sheet (Attachment #2).

6. **Documentation**

- 6.1 PASS Completion Checkoff List. Original to be permanently filed with the Accelerator Systems Group Leader (ASGL) following completion of testing.
- 6.2 PASS Trouble Log Tracking Sheet. Original to be permanently filed with the ASGL following completion of testing.
- 6.3 Procedure Summary Sign-off Sheet. Original to be permanently filed with the ASGL following completion of testing.
- 6.4 Test Procedure (Attachment #4 to this OPM). Original to be permanently filed with the ASGL following completion of testing.
- 6.5 PASS Maintenance Log Book

7. References

None

8. Attachments

- 1. PASS Completion Checkoff List
- 2. Procedure Summary Sign-off Sheet
- 3. PASS Trouble Log Tracking Sheet
- 4. Test procedure to be executed (PEER 17 Gates)

Fill Out Reading Acknowledgment Form

PEER 17 GATES (8 O'Clock)

PASS ACCEPTANCE PROCEDURES; COMPLETION CHECKOFF LIST

Section	Description	Errors found?	Errors Corrected	Retesting complete	Procedure Complete	Ву	Notes
1.1	Gate 7GS1	Y N	//	//	//		
1.2	Door 7EL1	Y N	//	//	_/_/_		
1.3	Gate 7GE1	Y N	//	//	//		
1.4	Door 7MD1	Y N	//	//	//		
1.5	Gate 8GE2	Y N	//	//	//		
1.6	Gate 8MD1	Y N	//	//	_/_/_		
1.7	Door 8EL1	Y N	//	//	//		
1.8	Door 8ED2	Y N	//	//	_/_/_		
1.9	Gate 9GS1	Y N	_/_/_	_/_/_	_/_/_		

Test Procedure Summary Sign-off Sheet

PEER 17 GATES (8 O'Clock)

<u>Test Team Leader</u> : Check one box.		
No failures found \Box	Failures were found	d (noted below)
est Notes:		====
oftware Title and Revision, Date and Chec	ksum: Division A:	
oftware Title and Revision, Date and Check		
revision, Bute and Chee.	Roum, Division D.	
est Team Leader (sign):		
	Life No.	
spector (sign):	Life No.	
sistant (sign):		
	Life No.	Date:
viawad by Cafaty Cystams Castian Haad.		===
viewed by Safety Systems Section Head:	Life No.	
pproved by RSC:		
	T.C.N	ъ.

PEER 17 GATES (8 O'Clock)

PASS Acceptance Test; Trouble Log Tracking Sheet:

Sect	Pg	Problem Description	Proc	Hard ware	Soft ware	Rev	Fixed

PASS SEMI-ANNUAL ACCEPTANCE TEST PROTOCOL

8 O'Clock (PEER 17) GATE TESTS

- 1. **Purpose:** To test the mechanical and electrical PASS functions of the gates for **PEER 17.**
- 1.0.1. Gates to be tested: 7GS1, 7EL1, 7GE1, 7MD1, 8GE2, 8MD1, 8EL1, 8ED2 and monitoring switches only for 9GS1.
- 1.0.2. Initial conditions: PEER 7 (adjacent PLC) is in Restricted Access (Mode 8)
 - 1.1. **SECTIONALIZING GATES (2) 7GS1: GATE BOX INDICATORS, LOCAL RESET, GATE WARNING LIGHTS:** This test verifies the Operator Interface and local gate box indicators, verifies the local gate reset function and verifies individual Division A & Division B interaction with gate micro switch circuitry. NOTE: when testing outer ring gate, refer to indicator lights on the inner ring gatebox. NOTE: There are two differently colored entry passcards BLUE for entry into the collider ring, and RED for entry into the experimental areas only. The standard BLUE card will not permit entry into the major experiments (PHENIX, & STAR). A second BLUE card, designated "SUPER BLUE", is for the use of specialized personnel who require entry into PHENIX and STAR (i.e., PASS personnel). The SUPER BLUE card will admit the holder into all areas of the collider, including all experimental areas. The RED Experimental Area cards come in four versions; one each for PHENIX, STAR, PHOBOS and BRAHMS. The RED cards will not allow admission of experimental personnel into the collider ring portions of the complex or into other experimental areas.

1.1.1. Test INNER GATE at 7GS1:

VERIFY	that PEER 7 (adjacent PLC) is in Restricted Access	MODE 8	G
PLACE	PEER 17 in Controlled Access (MODE 16)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 16	G
INSPECT	The physical condition of the RING INNER gate. Check for proper		G
	mechanical operation and alignment of the position-sensing micro switch	ches.	
	Check for any damage to the wiring.		
INSPECT	The physical condition of the gateboxes. Check for integrity of		G
	switches and indicator lights. Check for any damage to the wiring.		
VERIFY	that from an open position, the gate will self close and latch.		G
VERIFY	that the warning lights on both sides of the gate indicate:		
	CALL MCR FOR CROSSOVER AMBER	ON	G
OPEN	the gate		G
VERIFY	that the Operator Interface sees the gate as	OPEN	G
HOLD	both of the PEER 17 gate micro switches	MADE	G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
RELEASE	the Div A PEER 17 gate micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV	G
HOLD	both of the PEER 17 gate micro switches	MADE	G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
RELEASE	the Div B PEER 17 gate micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	
CLOSE	the gate.		G
VERIFY	that the Operator Interface indicates the gate is	NOT RESET	G
VERIFY	the 7Z1 gate box Gate Reset light is	OFF	G
RESET	the gate with the #15 RC Sweep key at the 7Z1 inner gate box.		G
VERIFY	that the Operator Interface indicates the gate is	RESET	G
VERIFY	the 7Z1 gate box Gate Reset light is	ON	G
OPEN	the gate.		G
VERIFY	that the Operator Interface indicates the gate is	OPEN	G
VERIFY	the 7Z1 gate box Gate Reset light is	OFF	G
CLOSE	the gate.		G

PASS	RHIC Acc	ceptance Test Procedure: 8 O'Clock PEER 17 GA'	TES	
	PLACE	PEER 17 in Controlled Access (MODE 17)		G
	VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 17	G
	VERIFY	that the warning lights on both sides of the gate indicate:		_
		CALL MCR FOR CROSSOVER AMBER	ON	G
	PLACE	PEER 17 in Restricted Access (MODE 8)		G
	VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 8	G
	VERIFY	that the warning lights on both sides of the gate indicate:		
		CALL MCR FOR CROSSOVER AMBER	OFF	G
	PLACE	PEER 17 in Safe Access (MODE 2)		G
	VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 2	Ğ
	VERIFY	that the warning lights on both sides of the gate indicate:		_
		CALL MCR FOR CROSSOVER AMBER	ON	G
CHECK C	4 4 4 .			
CHECK I	or test accepta	ance of 7GS1 INNER RING GATE G		
1.1.2.	Test OUTE	R GATE at 7GS1:		
	PLACE	PEER 17 in Controlled Access (MODE 16)		G
	VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 16	Ğ
	INSPECT	The physical condition of the RING OUTER gate. Check for proper r		G
		operation and alignment of the position-sensing micro switches.		
		Check for any damage to the wiring.		
	INSPECT	The physical condition of the gateboxes. Check for integrity of any		G
		switches and indicator lights. Check for any damage to the wiring.		
	VERIFY	that the warning lights on both sides of the gate indicate:	0.37	_
	Y/EDIEY/	CALL MCR FOR CROSSOVER AMBER	ON	G
	VERIFY OPEN	that from an open position, the gate will self close and latch.		G G
	VERIFY	the gate that the Operator Interface sees the gate as	OPEN	G
	HOLD	both of the PEER 17 gate micro switches	MADE	G
	VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
		the Div A PEER 17 gate micro switch	NOT KESET	G
	VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	
	HOLD	both of the PEER 17 gate micro switches	MADE	G
	VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
		the Div B PEER 17 gate micro switch	1.01 ALDEL	G
	VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	
	CLOSE	the gate.		Ğ
	VERIFY	that the Operator Interface indicates the gate is	NOT RESET	Ğ

 $\textbf{CHECK} \ \text{for test acceptance of 7GS1 OUTER RING GATE} \quad \textbf{G}$

PASS CRITIC Acceptance Test Procedure: 8 O'Clock PEER 17 GATES	PASS	RHIC Acceptance Test Procedure:	8 O'Clock	PEER 17	GATES	
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1.2. **ESCAPE DOOR 7EL1: GATE BOX INDICATOR, LOCAL RESET.** This test verifies the Operator Interface and local door indicators, verifies the local gate reset function and verifies individual Division A & Division B interaction with door micro switch circuitry.

PLACE	PEER 17 in Controlled Access (MODE 16)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 16	G
INSPECT	the physical condition of the door. Check for proper mechanical		G
	operation and alignment of the position-sensing micro switches.		
	Check for any damage to the wiring.		
INSPECT	The physical condition of the gatebox. Check for integrity of		G
	switches and indicator lights. Check for any damage to the wiring.		
VERIFY	that door cannot be opened from the outside.		G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
SECURE	the security bar micro switch as	MADE	G
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div A door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div B door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	G
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the security bar micro switch		G
VERIFY	that the Operator Interface sees the door	OPEN	G
CLOSE	the door and latch the security bar		G
VERIFY	the 7EL1 Door Reset light is	OFF	G
RESET	the door with the #15 RC Sweep key at the 7EL1 gate box.		G
VERIFY	that the Operator Interface indicates the 7EL1 door is	RESET	G
VERIFY	the 7EL1 Door Reset light is	ON	G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
VERIFY	that the gate box Gate Reset light is	OFF	G
CLOSE	the door		G
VERIFY	that the Operator Interface indicates the door is	NOT RESET	G
VERIFY	the gate box Door Reset light is	OFF	G

CHECK for test acceptance of 7EL1 DOOR: G

PASS	PHIC A A TO A D	0.01011	DEED 15	
IASS	Acceptance Test Procedure:	8 O'Clock	PEEK I/	GATES

1.3. **ENTRY GATE 7GE1: GATE BOX INDICATOR, ELECTRIC STRIKE, BUZZER.** This test verifies the Operator Interface and local gate box indicators and verifies individual Division A & Division B interaction with gate micro switch circuitry. Note: this gate is only resettable remotely; which cannot be accomplished without a full key tree. Confirmation of remote reset will be done in a separate procedure.

PLACE VERIFY INSPECT	PEER 17 in Controlled Access (MODE 16). the Operator Interface indicates that PEER 17 is in The physical condition of the gate. Check for proper mechanical operation and alignment of the position-sensing micro switches.	MODE 16	G G G
INSPECT	Check for any damage to the wiring and crash glass. The physical condition of the gate boxes. Check for integrity of switches and indicator lights. Check for any damage to the wiring.		G
VERIFY	that from an open position, the gate will self close and latch.		G
VERIFY	the exterior gate box Controlled Access light is	ON	G
VERIFY	that the warning light on the inside of the gate indicates		
	CALL MCR FOR EXIT AMBER	ON	G
	to open gate 7GE1 with the S-key. Attempt shall	FAIL	G
	to open gate 7GE1 using S-key and simultaneous release. Attempt shall		G
	to open gate 7GE1 with the #14 RC CA key. Attempt shall	FAIL	G
OPEN	gate 7GE1 using #14 RC CA key and sim release. Entry shall be	SUCCESSFUL	G
VERIFY	that the buzzer sounds with the simultaneous release.	T T.	G
	to operate the RA key switch with a blank key. Attempt shall	FAIL	G
	to operate the CA key switch with a blank key. Attempt shall	FAIL	G
	to open gate 7GE1 with a Blue card. Attempt shall	FAIL	G
	to open gate 7GE1 with a Super Blue card. Attempt shall	FAIL	G
	to open gate 7GE1 with a PHENIX Red card. Attempt shall	FAIL	G
	to open gate 7GE1 with a STAR Red card. Attempt shall	FAIL	G
	to open gate 7GE1 with a PHOBOS Red card. Attempt shall	FAIL	G G
ATTEMPT	to open gate 7GE1 with a BRAHMS Red card. Attempt shall	FAIL	G
OPEN	the gate		G
VERIFY	that the Operator Interface sees the gate as	OPEN	G
SECURE	the electric strike micro switch as	MADE	G
HOLD	both of the gate micro switches	MADE	Ğ
VERIFY	that the Operator Interface sees the gate as	NOT RESET	Ğ
RELEASE	the Div A gate micro switch	1,011	Ğ
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	
HOLD	both of the gate micro switches	MADE	G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
RELEASE	the Div B gate micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	G
HOLD	both of the gate micro switches	MADE	G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
RELEASE	the electric strike micro switch		G
VERIFY	that the Operator Interface sees the gate as	OPEN	G
CLOSE	the gate		G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
VERIFY	that the gate box Gate Reset light is	OFF	G

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PLACE	PEER 17 in Controlled Access (MODE 17)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 17	G
VERIFY	the exterior gate box Controlled Access light is	ON	G
VERIFY	that the warning light on the inside side of the gate indicates		
	CALL MCR FOR EXIT AMBER	ON	G
ATTEMPT	to open gate 7GE1 with the S-key. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 using S-key and sim release. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with the #14 RC CA key. Attempt shall	FAIL	G
OPEN	gate 7GE1 using #14 RC CA key and sim release. Entry shall be	SUCCESSFUL	G
ATTEMPT	to open gate 7GE1 with a Blue card. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with a Super Blue card. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with a PHENIX Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with a STAR Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with a PHOBOS Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with a BRAHMS Red card. Attempt shall	FAIL	G
PLACE	PEER 17 in Restricted Access (MODE 8)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 8	G
VERIFY	the exterior gate box Restricted Access light is	ON	G
VERIFY	that the warning light on the inside of the gate indicates		
	CALL MCR FOR EXIT AMBER	OFF	G
OPEN	gate 7GE1 with the S-key. Entry shall be	SUCCESSFUL	G
OPEN	gate 7GE1 with the #14 RC CA key. Entry shall be	SUCCESSFUL	G
OPEN	gate 7GE1 with a Blue card. Entry shall be	SUCCESSFUL	G
OPEN	gate 7GE1 with a Super Blue card. Entry shall be	SUCCESSFUL	G
ATTEMPT	to open gate 7GE1 with a PHENIX Red card. Attempt shall	FAIL	G
	to open gate 7GE1 with a STAR Red card. Attempt shall	FAIL	G
	to open gate 7GE1 with a PHOBOS Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with a BRAHMS Red card. Attempt shall	FAIL	G
DT 4 CE	DEED 45: G A A GEODE A		•
PLACE	PEER 17 in Safe Access (MODE 2)	MODEA	G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 2	G
VERIFY	the exterior gate box Controlled Access light is	ON	G
VERIFY	that the warning light on the inside side of the gate indicates	ON	_
	CALL MCR FOR EXIT AMBER	ON	G
	to open gate 7GE1 with the S-key. Attempt shall	FAIL	G
	to open gate 7GE1 using S-key and sim release. Attempt shall	FAIL	G
	to open gate 7GE1 with the #14 RC CA key. Attempt shall	FAIL	G
OPEN	gate 7GE1 using #14 RC CA key and sim release. Entry shall be	SUCCESSFUL	G
	to open gate 7GE1 with a Blue card. Attempt shall	FAIL	G
	to open gate 7GE1 with a Super Blue card. Attempt shall	FAIL	G
	to open gate 7GE1 with a PHENIX Red card. Attempt shall	FAIL	G
	to open gate 7GE1 with a STAR Red card. Attempt shall	FAIL	G
	to open gate 7GE1 with a PHOBOS Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 7GE1 with a BRAHMS Red card. Attempt shall	FAIL	G

CHECK for test acceptance of gate 7GE1 G

~ ~	A				
PASS	(RHIC)	Acceptance Test Procedure:	8 O'Clock	PEER 17	GATES

1.4. **MAGNET TRANSPORT DOOR(2) 7MD1: GATE BOX INDICATORS, LOCAL RESET:** This test verifies the Operator Interface and local gate box indicators, verifies the local gate reset function and verifies individual Division A & Division B interaction with gate micro switch circuitry.

PLACE VERIFY INSPECT	PEER 17 in Controlled Access (MODE 16) the Operator Interface indicates that PEER 17 is in The physical condition of the left door. Check for proper mechanical operation and alignment of the position-sensing micro switches. Check for any damage to the wiring.	MODE 16	G G G
INSPECT	The physical condition of the gate box. Check for integrity of switches and indicator lights. Check for any damage to the wiring.		G
VERIFY OPEN VERIFY	that from an open position, the door will self close and latch. the door that the Operator Interface sees the door as	OPEN	G G G
HOLD VERIFY RELEASE VERIFY HOLD VERIFY RELEASE VERIFY CLOSE VERIFY VERIFY	both of the door micro switches that the Operator Interface sees the door as the Div A door micro switch that the Operator Interface indicates both of the door micro switches that the Operator Interface sees the door as the Div B door micro switch that the Operator Interface indicates the door that the Operator Interface sees the door as the door Gate Reset light is	MADE NOT RESET DIV A not equal to DIV B MADE NOT RESET DIV A not equal to DIV B NOT RESET OFF	6666666666
RESET VERIFY VERIFY OPEN VERIFY VERIFY CLOSE VERIFY VERIFY	the door with the #15 RC Sweep key at the 7MD1 gate box. that the Operator Interface indicates the 7MD1 door is the 7MD1 Door Reset light is the door that the Operator Interface sees the door as that the gate box Gate Reset light is the door that the Operator Interface indicates the door is the gate box Door Reset light is	RESET ON OPEN OFF NOT RESET OFF	G G G G G G G

CHECK for test acceptance of 7MD1 LEFT DOOR G

PLACE VERIFY the Operator Interface indicates that PEER 17 is in MODE 16 GINSPECT The physical condition of the right door. Check for proper mechanical operation and alignment of the position-sensing micro switches. Check for any damage to the wiring. INSPECT The physical condition of the gate box. Check for integrity of switches and indicator lights. Check for any damage to the wiring. VERIFY that from an open position, the door will self close and latch. OPEN the door GOPEN GO
VERIFY the Operator Interface indicates that PEER 17 is in MODE 16 G INSPECT The physical condition of the right door. Check for proper mechanical operation and alignment of the position-sensing micro switches. Check for any damage to the wiring. G INSPECT The physical condition of the gate box. Check for integrity of switches and indicator lights. Check for any damage to the wiring. G VERIFY that from an open position, the door will self close and latch. G OPEN the door G VERIFY that the Operator Interface sees the door as OPEN G HOLD both of the door micro switches MADE G VERIFY that the Operator Interface sees the door as NOT RESET G WERIFY that the Operator Interface indicates DIV A not equal to DIV B G WERIFY that the Operator Interface sees the door as NOT RESET G VERIFY that the Operator Interface indicates DIV A not equal to DIV B G VERIFY that the Operator Interface indicates DIV A not equal to DIV B G VERIFY that the Operator Interface sees the door as NOT RESET G
operation and alignment of the position-sensing micro switches. Check for any damage to the wiring. INSPECT The physical condition of the gate box. Check for integrity of switches and indicator lights. Check for any damage to the wiring. VERIFY that from an open position, the door will self close and latch. OPEN the door Grain the face sees the door as OPEN Grain the the Operator Interface sees the door as OPEN Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface indicates DIV A not equal to DIV B Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the door as NOT RESET Grain that the Operator Interface sees the Operator Interface sees the Operator Interface sees the O
Check for any damage to the wiring. INSPECT The physical condition of the gate box. Check for integrity of switches and indicator lights. Check for any damage to the wiring. VERIFY that from an open position, the door will self close and latch. OPEN the door G VERIFY that the Operator Interface sees the door as OPEN G HOLD both of the door micro switches MADE G VERIFY that the Operator Interface sees the door as NOT RESET G RELEASE the Div A door micro switch G VERIFY that the Operator Interface indicates DIV A not equal to DIV B G HOLD both of the door micro switches MADE G VERIFY that the Operator Interface sees the door as NOT RESET G RELEASE the Div B door micro switch G VERIFY that the Operator Interface sees the door as NOT RESET G RELEASE the Div B door micro switch G VERIFY that the Operator Interface indicates DIV A not equal to DIV B G CLOSE the door G VERIFY that the Operator Interface indicates G LOSE the door G VERIFY that the Operator Interface sees the door as NOT RESET G CLOSE the door G VERIFY that the Operator Interface sees the door as NOT RESET G
INSPECT The physical condition of the gate box. Check for integrity of switches and indicator lights. Check for any damage to the wiring. VERIFY that from an open position, the door will self close and latch. OPEN the door VERIFY that the Operator Interface sees the door as HOLD both of the door micro switches WERIFY that the Operator Interface sees the door as NOT RESET G RELEASE the Div A door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switch WERIFY that the Operator Interface indicates HOLD both of the door micro switches WERIFY that the Operator Interface sees the door as NOT RESET G RELEASE the Div B door micro switch G VERIFY that the Operator Interface sees the door as NOT RESET G RELEASE the Div B door micro switch G VERIFY that the Operator Interface indicates DIV A not equal to DIV B G CLOSE the door G VERIFY that the Operator Interface indicates CLOSE the door G NOT RESET G NOT RESET
switches and indicator lights. Check for any damage to the wiring. VERIFY that from an open position, the door will self close and latch. OPEN the door VERIFY that the Operator Interface sees the door as OPEN G HOLD both of the door micro switches WERIFY that the Operator Interface sees the door as NOT RESET G RELEASE the Div A door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switches WERIFY that the Operator Interface indicates HOLD both of the door micro switches WERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch WERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch GUERIFY that the Operator Interface indicates VERIFY that the Operator Interface indicates CLOSE the door WERIFY that the Operator Interface sees the door as NOT RESET G NOT RESET G NOT RESET G
VERIFY that from an open position, the door will self close and latch. OPEN the door VERIFY that the Operator Interface sees the door as HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as NOT RESET GRELEASE the Div A door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch GUERIFY that the Operator Interface indicates VERIFY that the Operator Interface indicates VERIFY that the Operator Interface indicates VERIFY that the Operator Interface indicates CLOSE the door VERIFY that the Operator Interface sees the door as NOT RESET G NOT RESET G NOT RESET G
OPEN the door VERIFY that the Operator Interface sees the door as OPEN G HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as RELEASE the Div A door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switchs VERIFY that the Operator Interface indicates HOLD both of the door micro switches WERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch VERIFY that the Operator Interface indicates OIV A not equal to DIV B G RELEASE the Div B door micro switch CUSE the door VERIFY that the Operator Interface indicates OIV A not equal to DIV B G CLOSE the door VERIFY that the Operator Interface sees the door as NOT RESET G
VERIFYthat the Operator Interface sees the door asOPENGHOLDboth of the door micro switchesMADEGVERIFYthat the Operator Interface sees the door asNOT RESETGRELEASEthe Div A door micro switchGVERIFYthat the Operator Interface indicatesDIV A not equal to DIV B GHOLDboth of the door micro switchesMADEGVERIFYthat the Operator Interface sees the door asNOT RESETGRELEASEthe Div B door micro switchGVERIFYthat the Operator Interface indicatesDIV A not equal to DIV B GCLOSEthe doorGVERIFYthat the Operator Interface sees the door asNOT RESETG
HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as RELEASE the Div A door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as NOT RESET G WERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch G VERIFY that the Operator Interface indicates CLOSE the door VERIFY that the Operator Interface sees the door as NOT RESET G VERIFY that the Operator Interface indicates CLOSE the door G VERIFY that the Operator Interface sees the door as NOT RESET G
VERIFYthat the Operator Interface sees the door asNOT RESETGRELEASEthe Div A door micro switchGVERIFYthat the Operator Interface indicatesDIV A not equal to DIV B GHOLDboth of the door micro switchesMADEGVERIFYthat the Operator Interface sees the door asNOT RESETGRELEASEthe Div B door micro switchGVERIFYthat the Operator Interface indicatesDIV A not equal to DIV B GCLOSEthe doorGVERIFYthat the Operator Interface sees the door asNOT RESETG
RELEASE the Div A door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch VERIFY that the Operator Interface indicates VERIFY that the Operator Interface indicates CLOSE the door VERIFY that the Operator Interface sees the door as NOT RESET G WERIFY that the Operator Interface indicates OIV A not equal to DIV B G VERIFY that the Operator Interface sees the door as NOT RESET G
RELEASE the Div A door micro switch VERIFY that the Operator Interface indicates HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch VERIFY that the Operator Interface indicates VERIFY that the Operator Interface indicates CLOSE the door VERIFY that the Operator Interface sees the door as NOT RESET G WERIFY that the Operator Interface indicates OIV A not equal to DIV B G VERIFY that the Operator Interface sees the door as NOT RESET G
HOLD both of the door micro switches VERIFY that the Operator Interface sees the door as RELEASE the Div B door micro switch VERIFY that the Operator Interface indicates CLOSE the door VERIFY that the Operator Interface sees the door as NOT RESET G NOT RESET G NOT RESET G
HOLDboth of the door micro switchesMADEGVERIFYthat the Operator Interface sees the door asNOT RESETGRELEASEthe Div B door micro switchGVERIFYthat the Operator Interface indicatesDIV A not equal to DIV B GCLOSEthe doorGVERIFYthat the Operator Interface sees the door asNOT RESETG
RELEASE the Div B door micro switch VERIFY that the Operator Interface indicates CLOSE the door VERIFY that the Operator Interface sees the door as NOT RESET G
VERIFYthat the Operator Interface indicatesDIV A not equal to DIV BGCLOSEthe doorGVERIFYthat the Operator Interface sees the door asNOT RESETG
CLOSE the door G VERIFY that the Operator Interface sees the door as NOT RESET G
VERIFY that the Operator Interface sees the door as NOT RESET G
1
VERIFY the door Gate Reset light is OFF G
RESET the door with the #15 RC Sweep key at the 7MD1 gate box.
VERIFY that the Operator Interface indicates the 7MD1 door is RESET G
VERIFY the 7MD1 Door Reset light is ON G
OPEN the door G
VERIFY that the Operator Interface sees the door as OPEN G
VERIFY that the gate box Gate Reset light is OFF G
CLOSE the door G
VERIFY that the Operator Interface indicates the door is NOT RESET G
VERIFY the gate box Door Reset light is OFF G

8 O'Clock

PEER 17

GATES

CHECK for test acceptance of 7MD1 RIGHT DOOR G

Acceptance Test Procedure:

PASS

PASS	Acceptance Test Procedure:	8 O'Clock	PEER 17	GATES
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1.5. **ENTRY GATE 8GE2: GATE BOX INDICATOR, ELECTRIC STRIKE, BUZZER.** This test verifies the Operator Interface and local gate box indicators and verifies individual Division A & Division B interaction with gate micro switch circuitry. Note: this gate is only resettable remotely; which cannot be accomplished without a full key tree. Confirmation of remote reset will be done in a separate procedure.

DI A CE	PPPP 451 C + N 1 + OSOPE 40		_
PLACE	PEER 17 in Controlled Access (MODE 16).	MODELL	G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 16	G
INSPECT	The physical condition of the gate. Check for proper mechanical		G
	operation and alignment of the position-sensing micro switches.		
	Check for any damage to the wiring and crash glass.		_
INSPECT	The physical condition of the gate boxes. Check for integrity of		G
	switches and indicator lights. Check for any damage to the wiring.		
VERIFY	that from an open position, the gate will self close and latch.		G
VERIFY	the exterior gate box Controlled Access light is	ON	G
VERIFY	that the warning light on the inside of the gate indicates		
	CALL MCR FOR EXIT AMBER	ON	G
ATTEMPT	to open gate 8GE2 with the S-key. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 using S-key and simultaneous release. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with the #14 RC CA key. Attempt shall	FAIL	G
OPEN	gate 8GE2 using #14 RC CA key and sim release. Entry shall be	SUCCESSFUL	G
VERIFY	that the buzzer sounds with the simultaneous release.		G
ATTEMPT	to operate the RA key switch with a blank key. Attempt shall	FAIL	G
ATTEMPT	to operate the CA key switch with a blank key. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a Blue card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a Super Blue card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a PHENIX Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a STAR Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a PHOBOS Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a BRAHMS Red card. Attempt shall	FAIL	G
OPEN	the gate		G
VERIFY	that the Operator Interface sees the gate as	OPEN	G
SECURE	the electric strike micro switch as	MADE	G
HOLD	both of the gate micro switches	MADE	G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
RELEASE	the Div A gate micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	G
HOLD	both of the gate micro switches	MADE	G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
RELEASE	the Div B gate micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	G
HOLD	both of the gate micro switches	MADE	G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
RELEASE	the electric strike micro switch		G
VERIFY	that the Operator Interface sees the gate as	OPEN	G
CLOSE	the gate		G
VERIFY	that the Operator Interface sees the gate as	NOT RESET	G
VERIFY	that the gate box Gate Reset light is	OFF	G

PLACE	PEER 17 in Controlled Access (MODE 17)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 17	G
VERIFY	the exterior gate box Controlled Access light is	ON	G
VERIFY	that the warning light on the inside of the gate indicates		
	CALL MCR FOR EXIT AMBER	ON	G
ATTEMPT	to open gate 8GE2 with the S-key. Attempt shall	FAIL	G
	to open gate 8GE2 using S-key and sim release. Attempt shall	FAIL	G
	to open gate 8GE2 with the #14 RC CA key. Attempt shall	FAIL	G
OPEN	gate 8GE2 using #14 RC CA key and sim release. Entry shall be	SUCCESSFUL	G
ATTEMPT	to open gate 8GE2 with a Blue card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a Super Blue card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a PHENIX Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a STAR Red card. Attempt shall	FAIL	G
ATTEMPT	T to open gate 8GE2 with a PHOBOS Red card. Attempt shall	FAIL	G
ATTEMPT	T to open gate 8GE2 with a BRAHMS Red card. Attempt shall	FAIL	G
PLACE	PEER 17 in Restricted Access (MODE 8)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 8	G
VERIFY	the exterior gate box Restricted Access light is	ON	G
VERIFY	that the warning light on the inside of the gate indicates		_
	CALL MCR FOR EXIT AMBER	OFF	G
OPEN	gate 8GE2 with the S-key. Entry shall be	SUCCESSFUL	G
OPEN	gate 8GE2 with the #14 RC CA key. Entry shall be	SUCCESSFUL	G
OPEN	gate 8GE2 with a Blue card. Entry shall be	SUCCESSFUL	G G G
OPEN	gate 8GE2 with a Super Blue card. Entry shall be	SUCCESSFUL	G
	to open gate 8GE2 with a PHENIX Red card. Attempt shall	FAIL	G
	to open gate 8GE2 with a STAR Red card. Attempt shall	FAIL	
	to open gate 8GE2 with a PHOBOS Red card. Attempt shall	FAIL	G
ATTEMP	to open gate 8GE2 with a BRAHMS Red card. Attempt shall	FAIL	G
PLACE	PEER 17 in Safe Access (MODE 2)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 2	G
VERIFY	the exterior gate box Controlled Access light is	ON	G
VERIFY	that the warning light on the inside side of the gate indicates		
	CALL MCR FOR EXIT AMBER	ON	G
ATTEMPT	to open gate 8GE2 with the S-key. Attempt shall	FAIL	G
	to open gate 8GE2 using S-key and sim release. Attempt shall	FAIL	G
	to open gate 8GE2 with the #14 RC CA key. Attempt shall	FAIL	G
OPEN	gate 8GE2 using #14 RC CA key and sim release. Entry shall be	SUCCESSFUL	G
	to open gate 8GE2 with a Blue card. Attempt shall	FAIL	G
	to open gate 8GE2 with a Super Blue card. Attempt shall	FAIL	G
	to open gate 8GE2 with a PHENIX Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a STAR Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a PHOBOS Red card. Attempt shall	FAIL	G
ATTEMPT	to open gate 8GE2 with a BRAHMS Red card. Attempt shall	FAIL	G

CHECK for test acceptance of gate 8GE2 G

PASS RHIC Acceptance Test Procedure: 8 O'Clock PEER 17 C
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1.6. MAGNET TRANSPORT DOOR(2) 8MD1: GATE BOX INDICATORS, LOCAL RESET: This test verifies the Operator Interface and local gate box indicators, verifies the local gate reset function and verifies individual Division A & Division B interaction with gate micro switch circuitry.

PLACE VERIFY INSPECT	PEER 17 in Controlled Access (MODE 16) the Operator Interface indicates that PEER 17 is in The physical condition of the left door. Check for proper mechanical operation and alignment of the position-sensing micro switches. Check for any damage to the wiring.	MODE 16	G G G
INSPECT	The physical condition of the gate box. Check for integrity of switches and indicator lights. Check for any damage to the wiring.		G
VERIFY OPEN VERIFY	that from an open position, the door will self close and latch. the door that the Operator Interface sees the door as	OPEN	G G G
HOLD VERIFY RELEASE VERIFY HOLD VERIFY RELEASE VERIFY CLOSE VERIFY	both of the door micro switches that the Operator Interface sees the door as the Div A door micro switch that the Operator Interface indicates both of the door micro switches that the Operator Interface sees the door as the Div B door micro switch that the Operator Interface indicates the door that the Operator Interface sees the door as the door Gate Reset light is	MADE NOT RESET DIV A not equal to DIV B MADE NOT RESET DIV A not equal to DIV B NOT RESET OFF	00000000000
RESET VERIFY VERIFY OPEN VERIFY VERIFY CLOSE VERIFY VERIFY	the door with the #15 RC Sweep key at the 8MD1 gate box. that the Operator Interface indicates the 8MD1 door is the 8MD1 Door Reset light is the door that the Operator Interface sees the door as that the gate box Gate Reset light is the door that the Operator Interface indicates the door is the gate box Door Reset light is	RESET ON OPEN OFF NOT RESET OFF	G G G G G G G

CHECK for test acceptance of 8MD1 LEFT DOOR G

PLACE	PEER 17 in Controlled Access (MODE 16)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 16	G
INSPECT	The physical condition of the right door. Check for proper mechanical		G
	operation and alignment of the position-sensing micro switches.		
	Check for any damage to the wiring.		
INSPECT	The physical condition of the gate box. Check for integrity of		G
	switches and indicator lights. Check for any damage to the wiring.		
VERIFY	that from an open position, the door will self close and latch.		G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div A door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DI	VB G
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div B door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DI	VB G
CLOSE	the door		G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
VERIFY	the door Gate Reset light is	OFF	G
RESET	the door with the #15 RC Sweep key at the 8MD1 gate box.		G
VERIFY	that the Operator Interface indicates the 8MD1 door is	RESET	G
VERIFY	the 8MD1 Door Reset light is	ON	G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
VERIFY	that the gate box Gate Reset light is	OFF	G
CLOSE	the door		G
VERIFY	that the Operator Interface indicates the door is	NOT RESET	G
VERIFY	the gate box Door Reset light is	OFF	G

8 O'Clock

PEER 17

GATES

CHECK for test acceptance of 8MD1 RIGHT DOOR G

Acceptance Test Procedure:

PASS

PASS

1.7. ESCAPE DOOR 8EL1: GATE BOX INDICATOR, LOCAL RESET. This test verifies the Operator Interface and local door indicators, verifies the local gate reset function and verifies individual Division A & Division B interaction with door micro switch circuitry.

PLACE	PEER 17 in Controlled Access (MODE 16)		G
VERIFY	the Operator Interface indicates that PEER 17 is in	MODE 16	G
INSPECT	the physical condition of the door. Check for proper mechanical		G
	operation and alignment of the position-sensing micro switches.		
	Check for any damage to the wiring.		
INSPECT	The physical condition of the gate box. Check for integrity of		G
	switches and indicator lights. Check for any damage to the wiring.		
VERIFY	that door cannot be opened from the outside.		G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
SECURE	the security bar micro switch as	MADE	G
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div A door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div B door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the security bar micro switch		G
VERIFY	that the Operator Interface sees the door	OPEN	G
CLOSE	the door and latch the security bar		G
VERIFY	the 8EL1 Door Reset light is	OFF	G
RESET	the door with the #15 RC Sweep key at the 8EL1 gate box.		G
VERIFY	that the Operator Interface indicates the 8EL1 door is	RESET	G
VERIFY	the 8EL1 Door Reset light is	ON	G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
VERIFY	that the gate box Gate Reset light is	OFF	G
CLOSE	the door		G
VERIFY	that the Operator Interface indicates the door is	NOT RESET	G
VERIFY	the gate box Door Reset light is	OFF	G

CHECK for test acceptance of **8EL1 DOOR** G

PASS	RHIC Acceptance Test Procedure:	8 O'Clock	PEER 17	GATES	
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1.8. **EXIT DOOR 8ED2: GATE BOX INDICATORS, LOCAL RESET.** This test verifies the Operator Interface and local gate box indicators, verifies the local door reset function and verifies individual Division A & Division B interaction with gate micro switch circuitry.

PLACE VERIFY	PEER 17 in Controlled Access (MODE 16). the Operator Interface indicates that PEER 17 is in	MODE 16	G G
VERIFY	that the warning light on the inside of the door indicates	WODE TO	0
V EIGHT 1	CALL MCR FOR EXIT AMBER	ON	G
INSPECT	The physical condition of the door. Check for proper mechanical	011	G
111011101	operation and alignment of the position-sensing micro switches.		Ŭ
INSPECT	The physical condition of the gate box. Check for integrity of		G
	switches and indicator lights. Check for any damage to the wiring.		_
VERIFY	that from open position the door will self-close and latch.		G
VERIFY	that the door can NOT be opened from the outside.		G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div A door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	G
HOLD	both of the door micro switches	MADE	G
VERIFY	that the Operator Interface sees the door as	NOT RESET	G
RELEASE	the Div B door micro switch		G
VERIFY	that the Operator Interface indicates	DIV A not equal to DIV B	G
CLOSE	the door		G
VERIFY	that the Operator Interface indicates the door is:	NOT RESET	G
VERIFY	that the Door Reset light is	OFF	G
RESET	the door with the #15 RC Sweep key at the 8ED2 door box.		G
VERIFY	that the Operator Interface indicates the door is:	RESET	G
VERIFY	that the Door Reset light is	ON	G
OPEN	the door		G
VERIFY	that the Operator Interface sees the door as	OPEN	G
VERIFY	that the Door Reset light is	OFF	G
CLOSE	the door		G
VERIFY	that the Operator Interface indicates the door is:	NOT RESET	G
VERIFY	that the Door Reset light is	OFF	G
RESET	the door with the #15 RC Sweep key at the 8ED2 door box.		G
VERIFY	that the Operator Interface indicates the door is:	RESET	G
VERIFY	that the Door Reset light is	ON	G

CHECK for test acceptance of door **8ED2** G

I n	LIGHT. NO	LIZING GATE 9GS1: AUXILIARY GATE MICRO SWITCHES, CLOTE: Gate 9GS1 is "owned" by PEER 15. Each gate (inner and outer) has PEER 17 Division A and Division B. This test verifies the correct operation.	as a third auxiliary micro	switch,	
1.9.1.	VERIFY PLACE VERIFY	that PEER 15 (adjacent PLC) is in Restricted Access (Mode 8) PEER 17 in Controlled Access (MODE 16). the Operator Interface indicates that PEER 17 is in	MODE 16	G G G	
1.9.2.	Test INNE	R GATE at 9GS1:			
	INSPECT VERIFY	operation and alignment of the auxiliary position-sensing micro switches.			
		CALL MCR FOR CROSSOVER AMBER	ON	G	
	OPEN VERIFY CLOSE	gate 9GS1-I that the Operator Interface sees the gate as gate 9GS1-I	OPEN	G G G	
СНЕС	VERIFY "K for test ac	that the Operator Interface sees the gate as ceptance of 9GS1-INNER RING GATE : G	NOT RESET	G	
		R GATE at 9GS1:			
1.7.3.	INSPECT VERIFY	The physical condition of the gate. Check for proper mechanical operation and alignment of the auxiliary position-sensing micro switches. that the warning light on both sides of the gate indicates			
	,	CALL MCR FOR CROSSOVER AMBER	ON	G	
	OPEN VERIFY CLOSE	gate 9GS1-O that the Operator Interface sees the gate as gate 9GS1-O	OPEN	G G G	
	VERIFY	that the Operator Interface sees the gate as	NOT RESET	G	
СНЕС	CK for test ac	ceptance of 9GS1-OUTER RING GATE : G			

8 O'Clock

PEER 17

GATES

END OF PROCEDURE

Sign and date for successful completion of PEER 17 Gate Tests

RHIC-OPM 4.801
Category A ONLINE COPY RHIC OPM-

Acceptance Test Procedure:

PASS

14 of 14 - Valid for 5 working days Revision 0 April 2, 1999